	Sunday	Tutorial A		Sunday	Tutorial B	

Time	Tutorial A	Tutorial B
9:00 – 10:20	Simulation + Hypothesis Testing for Model Checking Probabilistic Systems Axel Legay, IRISA/INRIA Rennes, France and Mahesh Viswanathan, University of Illinois at Urbana-Champaign, USA PART 1	An Introduction to Monte Carlo Methods and Rare Event Simulation Gerardo Rubino and Bruno Tuffin, IRISA/INRIA Rennes, France PART 1
10:30 – 10:50	coffee break	coffee break
11:00 – 12:20	Simulation + Hypothesis Testing for Model Checking Probabilistic Systems Axel Legay, IRISA/INRIA Rennes, France and Mahesh Viswanathan, University of Illinois at Urbana-Champaign, USA PART 2	An Introduction to Monte Carlo Methods and Rare Event Simulation Gerardo Rubino and Bruno Tuffin, IRISA/INRIA Rennes, France PART 2
12:30 – 13:50	lunch break	lunch break
14:00 – 15:20	Infinite-State Verification: From Transition Systems to Markov Chains Parosh Aziz Abdulla, Uppsala University	Petri net analysis using decision diagrams Gianfranco Ciardo, Department of Computer Science and Engineering, University of California at Riverside PART 1
15:30 – 15:50	coffee break	coffee break
16:00 – 17:20	Analyzing Large Sparse Markov Chains of Kronecker Products Tugrul Dayar, Department of Computer Engineering, Bilkent University	Petri net analysis using decision diagrams Gianfranco Ciardo, Department of Computer Science and Engineering, University of California at Riverside PART 2
18:00 – 19:20	Welcome reception	Welcome reception

Legend:
- Model checking
- Probabilistic model checking
- Stochastic Petri net
- PH/MAP
- QBD
- Structured Markov chains
- Network models
- HW/SW models
- TOOLS demonstration
- lunch
- coffee
- plenary
- Tutorial

Time slots: 9:00, 9:10, 9:20, 9:30, 9:40, 9:50, 10:00, 10:10, 10:20, 10:30, 10:40, 10:50, 11:00, 11:10, 11:20, 11:30, 11:40, 11:50, 12:00, 12:10, 12:20, 12:30, 12:40, 12:50, 13:00, 13:10, 13:20, 13:30, 13:40, 13:50, 14:00, 14:10, 14:20, 14:30, 14:40, 14:50, 15:00, 15:10, 15:20, 15:30, 15:40, 15:50, 16:00, 16:10, 16:20, 16:30, 16:40, 16:50, 17:00, 17:10, 17:20, 17:30, 17:40, 17:50, 18:00, 18:10, 18:20, 18:30, 18:40, 18:50, 19:00, 19:10, 19:20, 19:30, 19:40, 19:50, 20:00, 20:10, 20:20, 20:30, 20:40, 20:50, 21:00

	Monday	Tueasday	Wednesday
9:00	Opening		
9:10	QEST/FORMATS invited talk	FORMATS invited talk	QEST invited talk
9:20			
9:30	Jan Beutel, ETH Zurich, Switzerland	Stéphane Gaubert, INRIA Saclay — Île-de-France, France	Lucy Cherkasova, Hewlett-Packard Laboratories, USA
9:40			
9:50			
10:00			
10:10	coffee break	coffee break	coffee break
10:20			
10:30	Pedro R. D'Argenio, Nicolás Wolovick, Pedro Sanchez Terraf and Pablo Celayes. Nondeterministic Labeled Markov Processes: Bisimulations and Logical Characterization	Juan F. Perez and Benny Van Houdt. Exploiting restricted transitions in Quasi-Birth-and-Death processes	Jens Schmitt and Ivan Martinovic. Demultiplexing in Network Calculus - A Stochastic Scaling Approach
10:40			
10:50			
11:00	Jiri Barnat, Ivana Cerna and Jana Tumova. Quantitative Model Checking of Systems with Degradation	Daniel Klink, Anne Remke, Boudewijn Haverkort and Joost-Pieter Katoen. Time-Bounded Reachability in Tree-Structured QBDs by Abstraction	Giuliano Casale. The Multi-Branched Method of Moments for Queueing Networks
11:10			
11:20			
11:30	Joost-Pieter Katoen and Ivan Zapreev. Simulation-Based CTMC Model Checking: An Empirical Evaluation	Qi Zhang, Armin Heindl, Andreas Stathopoulos and Evgenia Smirni. Comparison of two output models for the BMAP/MAP/1 departure process	Andras Farago. Quantifying the trade-off between the level of connectivity and local complexity in random wireless network topologies
11:40			
11:50			
12:00	Rena Bakhshi and Ansgar Fehnker. On the impact of modelling choices for distributed information spread	Andras Horvath and enrico vicario. Aggregated stochastic state classes in quantitative evaluation of non-Markovian Stochastic Petri Nets	Rena Bakhshi, Lucia Cloth, Wan Fokkink and Boudewijn Haverkort. Mean-Field Analysis for the Evaluation of Gossip Protocols
12:10			
12:20			
12:30			
12:40			
12:50			
13:00			
13:10	lunch break	lunch break	lunch break
13:20			
13:30			
13:40			
13:50			
14:00	Peter Buchholz and Jan Kriege. A Heuristic Approach for Fitting MAPs to Moments and Joint Moments	Ivan Zapreev, Joost-Pieter Katoen, Holger Hermanns, E. Moritz Hahn and David N. Jansen. The Ins and Outs of The Probabilistic Model Checker MRMC	Ruth Lamprecht and Peter Kemper. On the Detection of Symmetries in Compositional Markov Models
14:10			
14:20			
14:30	Reza Pulungan and Holger Hermanns. Acyclic Minimality by Construction	Serge Haddad and Nihal Pekergin. Using Stochastic Comparison for Efficient Model Checking of Uncertain Markov Chains	Afonso Sales and Brigitte Plateau. Reachable state space generation for structured models which use functional transitions
14:40			
14:50			
15:00	Hiroyuki Okamura and Tadashi Dohi. Faster Maximum Likelihood Estimation Algorithms for Markovian Arrival Processes	Arnd Hartmanns and Holger Hermanns. A Modest Approach to Checking Probabilistic Timed Automata	Ricardo Czekster, Paulo Fernandes and Thais Webber. GTA express - A Software Package to Handle Kronecker
15:10			Peter Kemper. Recent Extensions to Traviando
15:20			Elina Pacini Naumovich and Simona Bernardi. Integrating TPNs and performance bound techniques in DrawNET: a new
15:30			
15:40	coffee break	coffee break	coffee break
15:50			
16:00	Michael Kuperberg, Martin Krogmann and Ralf Reussner. TimerMeter: Quantifying Properties of Software Timers for System Analysis	Husain Aljazzar and Stefan Leue. Generation of Counterexamples for Model Checking of Markov Decision Processes	Alastair Donaldson, Alice Miller and David Parker. Language-level Symmetry Reduction for Probabilistic Model Checking
16:10			
16:20			
16:30	Melinda Magyar and Istvan Majzik. Modular Construction of Dependability Models from System Architecture Models: A Tool-	Divey Gulati, Ken Keefe, Quincy Mitchell, Eric W. D. Rozier and William H. Sanders. Remote Job Management in the	Husain Aljazzar, Manuel Fischer, Lars Grunske, Matthias Kuntz, Florian Leitner and Stefan Leue. Safety Analysis of an
16:40	Abigail Lebrecht, Nicholas Dingle and William Knottenbelt. A Performance Model of Zoned Disk Drives with I/O Request Reordering	Jonathan Bogdoll, Holger Hermanns and Lijun Zhang. FlowSim Simulation Benchmarking Platform	Airbag System using Probabilistic FMEA and Probabilistic Counter Examples
16:50		Antonius Erdmann and Dietmar Weber. PerDaCol and PerfAnalysis - A tool set for performance measurement data	
17:00			Federica Ciocchetta, Adam Duguid, Stephen Gilmore, Maria Luisa Guerriero and Jane Hillston. The Bio-PEPA Tool Suite
17:10	Philippe Moret, Walter Binder, Alex Villazon, Danilo Ansaloni and Martin Schoeberl. Locating Performance Bottlenecks in		Closing
17:20	Martin Schoeberl, Walter Binder, Philippe Moret and Alex Villazon. Design Space Exploration for Java Processors with Cross-Profiling		
17:30			
17:40			
17:50	Max Walter, Philipp Limbourg and Sebastian Esch. COBAREA: The COpula-BAsed REliability and Availability modeling		
18:00			
18:10			Transportation to PMCCS
18:20			
18:30			
18:40			
18:50			
19:00			
19:10			
19:20		Social program and banquet diner	
19:30			

Legend:
- **Model checking** (yellow)
- **Probabilistic model checking** (red)
- **Stochastic Petri net** (red)
- **PH/MAP** (dark green)
- **QBD** (olive/yellow-green)
- **Structured Markov chains** (green)
- **Network models** (cyan)
- **HW/SW models** (blue)
- **TOOLS demonstration** (pink)
- **lunch** (purple)
- **coffee** (brown)
- **plenary** (gray)
- **Tutorial** (dark slate blue)